FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO Eastman Chemical Company

AUTHORIZING THE OPERATION OF
Eastman Chemical Texas Operations
R1 Pilot Plant and Semiworks
All Other Basic Organic Chemical Manufacturing

LOCATED AT

Harrison County, Texas
Latitude 32° 26' 17" Longitude 94° 41' 24"
Regulated Entity Number: RN100219815

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No:	O1975	Issuance Date: _	
For the Co	mmission		

Table of Contents

Section	Page
General Terms and Conditions	1
Special Terms and Conditions:	1
Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting	1
New Source Review Authorization Requirements	6
Compliance Requirements	
Permit Location	
Permit Shield (30 TAC § 122.148)	8
Attachments	9
Applicable Requirements Summary	10
Permit Shield	
New Source Review Authorization References	25
Appendix A	29
Acronym List	

General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

- 1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
 - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
 - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

- E. Emission units subject to 40 CFR Part 63, Subpart DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113, Subchapter C, § 113.1130 which incorporates the 40 CFR Part 63 Subpart by reference.
- 2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
 - A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
- 3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
 - A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
 - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
 - (ii) Title 30 TAC § 111.111(a)(1)(E)
 - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
 - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive

ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

- (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
- (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel
- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (5) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity

requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.
- B. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- C. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- D. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by [h_e/H_e]² as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- 4. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)

- 5. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 61, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 61.05 (relating to Prohibited Activities)
 - B. Title 40 CFR § 61.07 (relating to Application for Approval of Construction or Modification)
 - C. Title 40 CFR § 61.09 (relating to Notification of Start-up)
 - D. Title 40 CFR § 61.10 (relating to Source Reporting and Request Waiver)
 - E. Title 40 CFR § 61.12 (relating to Compliance with Standards and Maintenance Requirements)
 - F. Title 40 CFR § 61.13 (relating to Emissions Tests and Waiver of Emission Tests)
 - G. Title 40 CFR § 61.14 (relating to Monitoring Requirements)
 - H. Title 40 CFR § 61.15 (relating to Modification)
 - I. Title 40 CFR § 61.19 (relating to Circumvention)
- 6. For facilities where total annual benzene quantity from waste is greater than or equal to 10 megagrams per year and subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:
 - A. Title 40 CFR § 61.342(c)(1)(i) (iii) (relating to Standards: General)
 - B. Title 40 CFR § 61.342(e)(1) (relating to Standards: General)
 - C. Title 40 CFR § 61.342(e)(2)(i) (ii) (relating to Standards: General)
 - D. Title 40 CFR § 61.342(g) (relating to Standards: General)
 - E. Title 40 CFR § 61.350(a) and (b) (relating to Standards: Delay of Repair)
 - F. Title 40 CFR § 61.355(a)(1)(iii), (a)(2), (a)(6), (b), and (c)(1) (3) (relating to Test Methods, Procedures, and Compliance Provisions)
 - G. Title 40 CFR § 61.355(k)(1) (6), and (7)(i) (iv) (relating to Test Methods, Procedures, and Compliance Provisions), for calculation procedures
 - H. Title 40 CFR § 61.356(a) (relating to Recordkeeping Requirements)
 - I. Title 40 CFR § 61.356(b), and (b)(1) (relating to Recordkeeping Requirements)
 - J. Title 40 CFR § 61.356(b)(4) (relating to Recordkeeping Requirements)
 - K. Title 40 CFR § 61.356(b)(5) (relating to Recordkeeping Requirements)
 - L. Title 40 CFR § 61.357(a), (d)(1), (d)(2) (d)(6) and (d)(8) (relating to Reporting Requirements)
 - M. Title 40 CFR § 61.357(d)(5) (relating to Reporting Requirements)

- N. Waste generated by remediation activities at these facilities are subject to the requirements identified under 40 CFR § 61.342 for treatment and management of waste
- 7. For facilities with containers subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:
 - A. Title 40 CFR § 61.345(a)(1) (3), (b), and (c) (relating to Standards: Containers)
 - B. Title 40 CFR § 61.355(h) (relating to Test Methods, Procedures and Compliance Provisions)
 - C. Title 40 CFR § 61.356(g) (relating to Recordkeeping Requirements)
 - D. Title 40 CFR § 61.356(h) (relating to Recordkeeping Requirements)
- 8. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
- 9. For site remediation projects subject to 40 CFR Part 63, Subpart GGGGG that are completed within 30 consecutive calendar days the permit holder shall comply with 40 CFR § 63.7884(b), (b)(1) (3) (Title 30 TAC, Subchapter C, § 113.1160 incorporated by reference).
- 10. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

New Source Review Authorization Requirements

- 11. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
 - A. Are incorporated by reference into this permit as applicable requirements
 - B. Shall be located with this operating permit
 - C. Are not eligible for a permit shield
- 12. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
- 13. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time

period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

- 14. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
- 15. Use of Discrete Emission Credits to comply with the applicable requirements:
 - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
 - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Permit Location

16. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

17. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Unit Summary	1²	1
Applicable Requirements Summary	12	2

Note: A "none" entry may be noted for some emission sources in this permit's "Applicable Requirements Summary" under the heading of "Monitoring and Testing Requirements" and/or "Recordkeeping Requirements" and/or "Reporting Requirements." Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
RD005D20	DISTILLATION OPERATIONS	N/A	60NNN-0001	40 CFR Part 60, Subpart NNN	No changing attributes.
RD005D34	DISTILLATION OPERATIONS	N/A	60NNN-0001	40 CFR Part 60, Subpart NNN	No changing attributes.
RD005FG30	FUGITIVE EMISSION UNITS	N/A	60VV-0001	40 CFR Part 60, Subpart VV	No changing attributes.
RD005H1	PROCESS HEATERS/FURNACES	N/A	63DDDD-0001	40 CFR Part 63, Subpart DDDDD	No changing attributes.
RD128FL1	FLARES	N/A	R1111-0001	30 TAC Chapter 111, Visible Emissions	No changing attributes.
RD128FL1	FLARES	N/A	60A-0001	40 CFR Part 60, Subpart A	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
RD005D20	EP	60NNN- 0001	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.660(c)(5)	Each affected facility, in a process unit of total design capacity < 1 gigagram/yr for all chemicals produced in the unit, is exempt from this subpart except for § 60.665(j), (l)(6) and (n).	§ 60.665(I)(6)	§ 60.665(j)	§ 60.665(I) § 60.665(I)(6) § 60.665(n)
RD005D34	EP	60NNN- 0001	VOC/TOC	40 CFR Part 60, Subpart NNN	§ 60.660(c)(5)	Each affected facility, in a process unit of total design capacity < 1 gigagram/yr for all chemicals produced in the unit, is exempt from this subpart except for § 60.665(j), (l)(6) and (n).	§ 60.665(I)(6)	§ 60.665(j)	§ 60.665(I) § 60.665(I)(6) § 60.665(n)
RD005FG30	EU	60VV-0001	voc	40 CFR Part 60, Subpart VV	§ 60.480(d)(2) § 60.480(d)(1) § 60.486(k)	Any affected facility that has the design capacity to produce less than 1,000 Mg/yr (1,102 ton/yr) of a chemical listed in § 60.489 is exempt from §§ 60.482-1 through 60.482-10.	None	[G]§ 60.486(a) § 60.486(i) § 60.486(i)(1)	None
RD005H1	EU	63DDDD- 0001	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
RD128FL1	EU	R1111-0001	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(4)(A)	Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.222(b).	§ 111.111(a)(4)(A)(i) § 111.111(a)(4)(A)(ii)	§ 111.111(a)(4)(A)(ii)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
RD128FL1	CD	60A-0001	Opacity	40 CFR Part 60, Subpart A	\$ 60.18(b) \$ 60.18(c)(1) \$ 60.18(c)(2) \$ 60.18(c)(3)(ii) \$ 60.18(c)(4)(i) \$ 60.18(c)(6) \$ 60.18(e)	Flares shall comply with paragraphs (c)-(f) of § 60.18.	§ 60.18(d) § 60.18(f)(1) § 60.18(f)(2) § 60.18(f)(3) § 60.18(f)(4)	None	None

Permit Shield	
Permit Shield	. 15

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
PRODBEREM	N/A	40 CFR Part 63, Subpart F	The chemical manufacturing process unit does not meet the criteria in §63.100(b)(1) or §63.100(b)(2).
PRODBEREM	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
PROLPOXO	N/A	40 CFR Part 63, Subpart F	Process is part of a research and development facility.
PROLPOXO	N/A	40 CFR Part 63, Subpart FFFF	Process is part of a research and development facility.
PROPPO	N/A	40 CFR Part 63, Subpart F	The chemical manufacturing process unit does not meet the criteria in §63.100(b)(1) or §63.100(b)(2).
PROPPO	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
PROPPO	N/A	40 CFR Part 63, Subpart GGG	Process is not an affected source since it is not a pharmaceutical manufacturing operation as defined in §63.1251.
PROPPO	N/A	40 CFR Part 63, Subpart MMM	Process is not an affected source since it is not a pesticide active ingredient manufacturing process unit (PAI process unit).
PROTXTOP	N/A	40 CFR Part 63, Subpart F	The chemical manufacturing process unit does not meet the criteria in §63.100(b)(1) or §63.100(b)(2).
PROTXTOP	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005D13	N/A	40 CFR Part 60, Subpart NNN	Process does not produce any chemicals listed in §60.667 as a product, co-product, by-product, or an intermediate.
RD005D13	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005D13	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
RD005D14	N/A	40 CFR Part 60, Subpart NNN	Process does not produce any chemicals listed in §60.667 as a product, co-product, by-product, or an intermediate.
RD005D14	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005D14	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005D20	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005D20	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005D22	N/A	40 CFR Part 60, Subpart NNN	Process does not produce any chemicals listed in §60.667 as a product, co-product, by-product, or an intermediate.
RD005D22	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005D22	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005D31	N/A	40 CFR Part 60, Subpart NNN	Process does not produce any chemicals listed in §60.667 as a product, co-product, by-product, or an intermediate.
RD005D31	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005D31	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005D34	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005D34	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005D35	N/A	40 CFR Part 60, Subpart NNN	Process does not produce any chemicals listed in §60.667 as a product, co-product, by-product, or an intermediate.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
RD005D35	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005D35	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005D39	N/A	40 CFR Part 60, Subpart NNN	Unit is not constructed, modified, or reconstructed after 12/30/1983.
RD005D39	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005D39	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005D4	N/A	40 CFR Part 60, Subpart NNN	Process does not produce any chemicals listed in §60.667 as a product, co-product, by-product, or an intermediate.
RD005D4	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005D4	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005D9	N/A	40 CFR Part 60, Subpart NNN	Process does not produce any chemicals listed in §60.667 as a product, co-product, by-product, or an intermediate.
RD005D9	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005D9	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005FG18	N/A	40 CFR Part 60, Subpart DDD	Unit is not an affected facility since it is not involved in the manufacture of polypropylene, polyethylene, polystyrene, or poly (ethylene terephthalate) as defined in §60.561 of this subpart.
RD005FG18	N/A	40 CFR Part 60, Subpart VV	Process unit does not produce as an intermediate or a final product one or more chemicals listed in 40 CFR §60.489.
RD005FG18	N/A	40 CFR Part 61, Subpart J	Facility does not have sources in benzene service.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
RD005FG18	N/A	40 CFR Part 61, Subpart V	Facility does not have sources in volatile hazardous air pollutant (VHAP) service.
RD005FG18	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005FG18	N/A	40 CFR Part 63, Subpart H	Chemical manufacturing process unit does not meet all the criteria specified in paragraphs (b)(1), (b)(2), and (b)(3) of §63.100.
RD005FG30	N/A	40 CFR Part 60, Subpart DDD	Unit is not an affected facility since it is not involved in the manufacture of polypropylene, polyethylene, polystyrene, or poly (ethylene terephthalate) as defined in §60.561 of this subpart.
RD005FG30	N/A	40 CFR Part 61, Subpart J	Facility does not have sources in benzene service.
RD005FG30	N/A	40 CFR Part 61, Subpart V	Facility does not have sources in volatile hazardous air pollutant (VHAP) service.
RD005FG30	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005FG30	N/A	40 CFR Part 63, Subpart H	Chemical manufacturing process unit does not meet all the criteria specified in paragraphs (b)(1), (b)(2), and (b)(3) of §63.100.
RD005FG6	N/A	40 CFR Part 60, Subpart DDD	Unit is not an affected facility since it is not involved in the manufacture of polypropylene, polyethylene, polystyrene, or poly (ethylene terephthalate) as defined in §60.561 of this subpart.
RD005FG6	N/A	40 CFR Part 60, Subpart VV	Process unit does not produce as an intermediate or a final product one or more chemicals listed in 40 CFR §60.489.
RD005FG6	N/A	40 CFR Part 61, Subpart J	Facility does not have sources in benzene service.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
RD005FG6	N/A	40 CFR Part 61, Subpart V	Facility does not have sources in volatile hazardous air pollutant (VHAP) service.
RD005FG6	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005FG6	N/A	40 CFR Part 63, Subpart H	Chemical manufacturing process unit does not meet all the criteria specified in paragraphs (b)(1), (b)(2), and (b)(3) of §63.100.
RD005H1	N/A	40 CFR Part 60, Subpart CCCC	Unit is not a Commercial and Industrial Solid Waste Incineration Unit (CISWI) unit as defined in §60.2265.
RD005H1	N/A	40 CFR Part 63, Subpart EEE	Unit is not an affected source since it is not a hazardous waste combustor as defined in §63.1201.
RD005R119	N/A	40 CFR Part 60, Subpart III	Unit does not use an air oxidation process and is not an affected facility.
RD005R119	N/A	40 CFR Part 60, Subpart RRR	Unit does not produce any chemical listed in §60.707 as a product, co-product, by-product, or an intermediate.
RD005R119	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005R119	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005R120	N/A	40 CFR Part 60, Subpart III	Unit does not use an air oxidation process and is not an affected facility.
RD005R120	N/A	40 CFR Part 60, Subpart RRR	Unit does not produce any chemical listed in §60.707 as a product, co-product, by-product, or an intermediate.
RD005R120	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
RD005R120	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005R124	N/A	40 CFR Part 60, Subpart III	Unit does not use an air oxidation process and is not an affected facility.
RD005R124	N/A	40 CFR Part 60, Subpart RRR	Unit does not produce any chemical listed in §60.707 as a product, co-product, by-product, or an intermediate.
RD005R124	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005R124	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005R128	N/A	40 CFR Part 60, Subpart III	Unit does not use an air oxidation process and is not an affected facility.
RD005R128	N/A	40 CFR Part 60, Subpart RRR	Unit does not produce any chemical listed in §60.707 as a product, co-product, by-product, or an intermediate.
RD005R128	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005R128	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005R129	N/A	40 CFR Part 60, Subpart III	Unit does not use an air oxidation process and is not an affected facility.
RD005R129	N/A	40 CFR Part 60, Subpart RRR	Unit does not produce any chemical listed in §60.707 as a product, co-product, by-product, or an intermediate.
RD005R129	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005R129	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005R5	N/A	40 CFR Part 60, Subpart III	Unit does not use an air oxidation process and is not an affected facility.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
RD005R5	N/A	40 CFR Part 60, Subpart RRR	Unit does not produce any chemical listed in §60.707 as a product, co-product, by-product, or an intermediate.
RD005R5	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005R5	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005R5000	N/A	40 CFR Part 60, Subpart III	Unit does not use an air oxidation process and is not an affected facility.
RD005R5000	N/A	40 CFR Part 60, Subpart RRR	Unit does not produce any chemical listed in §60.707 as a product, co-product, by-product, or an intermediate.
RD005R5000	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005R5000	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005R800	N/A	40 CFR Part 60, Subpart III	Unit does not use an air oxidation process and is not an affected facility.
RD005R800	N/A	40 CFR Part 60, Subpart RRR	Unit does not produce any chemical listed in §60.707 as a product, co-product, by-product, or an intermediate.
RD005R800	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005R800	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005ST4	N/A	40 CFR Part 60, Subpart Kb	Capacity of storage unit is less than 75 m3.
RD005ST4	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
RD005ST4	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
RD005ST4	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005ST6	N/A	40 CFR Part 60, Subpart Kb	Capacity of storage unit is less than 75 m3.
RD005ST6	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
RD005ST6	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005ST6	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005T10	N/A	40 CFR Part 60, Subpart Kb	Capacity of storage unit is less than 75 m3.
RD005T10	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
RD005T10	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005T10	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005T200	N/A	40 CFR Part 60, Subpart Kb	Capacity of storage unit is less than 75 m3.
RD005T200	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
RD005T200	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005T200	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005T401	N/A	40 CFR Part 60, Subpart Kb	Capacity of storage unit is less than 75 m3.
RD005T401	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
RD005T401	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005T401	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005T511	N/A	40 CFR Part 60, Subpart Kb	Capacity of storage unit is less than 75 m3.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
RD005T511	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
RD005T511	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005T511	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005T520	N/A	40 CFR Part 60, Subpart Kb	Capacity of storage unit is less than 75 m3.
RD005T520	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
RD005T520	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005T520	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005T521	N/A	40 CFR Part 60, Subpart Kb	Capacity of storage unit is less than 75 m3.
RD005T521	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
RD005T521	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005T521	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005T711	N/A	40 CFR Part 60, Subpart Kb	Capacity of storage unit is less than 75 m3.
RD005T711	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.
RD005T711	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005T711	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005TK16	N/A	40 CFR Part 60, Subpart Kb	Capacity of storage unit is less than 75 m3.
RD005TK16	N/A	40 CFR Part 61, Subpart Y	Unit does not store refined or industrial grade benzene.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
RD005TK16	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005TK16	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD005WWPPO	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD005WWPPO	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD060LR1	N/A	40 CFR Part 61, Subpart BB	Unit does not load benzene containing material.
RD060LR1	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD060LR1	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.
RD060LT2	N/A	40 CFR Part 61, Subpart BB	Unit does not load benzene containing material.
RD060LT2	N/A	40 CFR Part 63, Subpart FFFF	Unit is not a part of an affected miscellaneous organic chemical manufacturing process unit (MCPU).
RD060LT2	N/A	40 CFR Part 63, Subpart G	Unit is not a part of an affected CMPU.

New Source Review Authorization References

New Source Review Authorization References	. 26
New Source Review Authorization References by Emission Unit	. 27

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.		
Authorization No.: 30130	Issuance Date: 07/26/2016	
Authorization No.: 84724	Issuance Date: 08/19/2013	
Permits By Rule (30 TAC Chapter 106) for the	Application Area	
Number: 106.102	Version No./Date: 09/04/2000	
Number: 106.122	Version No./Date: 09/04/2000	
Number: 106.124	Version No./Date: 09/04/2000	
Number: 106.261	Version No./Date: 09/04/2000	
Number: 106.261	Version No./Date: 11/01/2003	
Number: 106.262	Version No./Date: 09/04/2000	
Number: 106.262	Version No./Date: 11/01/2003	
Number: 106.263	Version No./Date: 11/01/2001	
Number: 106.472	Version No./Date: 09/04/2000	
Number: 106.475	Version No./Date: 09/04/2000	
Number: 106.476	Version No./Date: 09/04/2000	

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
PRODBEREM	DIBUTYL ETHER REMOVAL PROCESS	30130
PROLPOXO	LOW PRESSURE OXO PILOT PLANT PROCESS	106.124/09/04/2000
PROPPO	PILOT PLANT PROCESS	30130, 84724
PROTXTOP	TEXANOL PRODUCTS TOPPING PROCESS	30130, 106.261/11/01/2003, 106.262/11/01/2003, 106.472/09/04/2000, 106.475/09/04/2000
RD005D13	DISTILLATION COLUMN 24DC-13	30130, 106.475/09/04/2000
RD005D14	DISTILLATION COLUMN 24D-14	30130
RD005D20	DISTILLATION COLUMN 24D-20	30130
RD005D22	DISTILLATION COLUMN 24D-22	30130, 106.475/09/04/2000
RD005D31	DISTILLATION COLUMN 24D-31	106.122/09/04/2000
RD005D34	DISTILLATION COLUMN 24DC-34	30130
RD005D35	DISTILLATION COLUMN 24D-35	106.124/09/04/2000
RD005D39	DISTILLATION COLUMN 24DC-39	30130
RD005D4	DISTILLATION COLUMN 24D-4	30130, 106.475/09/04/2000
RD005D9	DISTILLATION COLUMN 24D-9	30130, 106.475/09/04/2000
RD005FG18	LOW PRESSURE OXO PROCESS EQUIP LEAKS	106.124/09/04/2000
RD005FG30	DIBUTYL ETHER REMOVAL PROCESS EQUIP LEAKS	30130
RD005FG6	CHEMICAL SEMIWORKS EQUIP LEAKS	30130, 106.261/09/04/2000, 106.262/09/04/2000, 106.475/09/04/2000
RD005H1	PROCESS HEATER FH-410	30130
RD005R119	REACTOR 24R-119	30130

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
RD005R120	REACTOR 24R-120	106.475/09/04/2000
RD005R124	REACTOR 24R-124	30130
RD005R128	REACTOR 24R-128	106.475/09/04/2000
RD005R129	REACTOR 24R-129	106.475/09/04/2000
RD005R5000	REACTOR 24R-5000	106.124/09/04/2000
RD005R5	REACTOR 24R-5	106.122/09/04/2000
RD005R800	STORAGE TANK 24R-800	106.475/09/04/2000
RD005ST4	STORAGE TANK 24ST-4	106.472/09/04/2000
RD005ST6	STORAGE TANK 24ST-6	106.472/09/04/2000
RD005T10	PROCESS TANK 24TK-10	106.475/09/04/2000
RD005T200	STORAGE TANK 24TK-200	30130, 106.475/09/04/2000
RD005T401	STORAGE TANK 24TK-401	30130, 106.475/09/04/2000
RD005T511	STORAGE TANK 24TK-511	106.475/09/04/2000
RD005T520	STORAGE TANK 24TK-520	106.475/09/04/2000
RD005T521	STORAGE TANK 24TK-521	106.475/09/04/2000
RD005T711	STORAGE TANK 24TK-711	106.475/09/04/2000
RD005TK16	STORAGE TANK 24TK-16	106.472/09/04/2000
RD005WWPPO	PILOT PLANT SEMIWORKS PROCESS WASTEWATER	30130
RD060LR1	PRODUCT RAIL CAR LOADING	106.475/09/04/2000
RD060LT2	PRODUCT TRUCK LOADING	106.475/09/04/2000
RD128FL1	BLDG. 24 FLARE	30130, 106.261/11/01/2003, 106.262/11/01/2003

	Appendix A
Acronym List	30

Acronym List

The following abbreviations or acronyms may be used in this permit:

A C E M	actual aubia fact par minuta
	actual cubic feet per minute
	Acid Rain Program
ASTM	American Society of Testing and Materials
B/PA	Beaumont/Port Arthur (nonattainment area)
	control device
	continuous emissions monitoring system
	continuous opacity monitoring system
CVS	closed vent system
D/FW	
	emission point
	U.S. Environmental Protection Agency
	emission unit
	Federal Clean Air Act Amendments
	federal operating permit
gr/100 scf	grains per 100 standard cubic feet
HAP	hazardous air pollutant
	hydrogen sulfide
	identification number
ID/Nr	pound(s) per hour
MMBtu/hr	Million British thermal units per hour
NA	nonattainment
N/A	not applicable
NESHAD	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO	nitrogen evideo
	nitrogen oxides
NSPS	
	New Source Review
ORIS	Office of Regulatory Information Systems
Pb	lead
	Permit By Rule
	nredictive emissions monitoring system
	predictive emissions monitoring system
PM	particulate matter
PMppmv	particulate matter parts per million by volume
PMppmvPRO	particulate matter parts per million by volume process unit
PMppmvPRO	particulate matter parts per million by volume
PMppmvPROPSD	particulate matter parts per million by volume process unit prevention of significant deterioration
PM	particulate matter parts per million by volume process unit prevention of significant deterioration pounds per square inch absolute
PM	particulate matter parts per million by volume process unit prevention of significant deterioration pounds per square inch absolute state implementation plan
PM	particulate matter parts per million by volume process unit prevention of significant deterioration pounds per square inch absolute state implementation plan sulfur dioxide
PM	particulate matter parts per million by volume process unit prevention of significant deterioration pounds per square inch absolute state implementation plan sulfur dioxide Texas Commission on Environmental Quality
PM	particulate matter parts per million by volume process unit prevention of significant deterioration pounds per square inch absolute state implementation plan sulfur dioxide Texas Commission on Environmental Quality total suspended particulate
PM	particulate matter parts per million by volume process unit prevention of significant deterioration pounds per square inch absolute state implementation plan sulfur dioxide Texas Commission on Environmental Quality total suspended particulate true vapor pressure
PM	particulate matter parts per million by volume process unit prevention of significant deterioration pounds per square inch absolute state implementation plan sulfur dioxide Texas Commission on Environmental Quality total suspended particulate